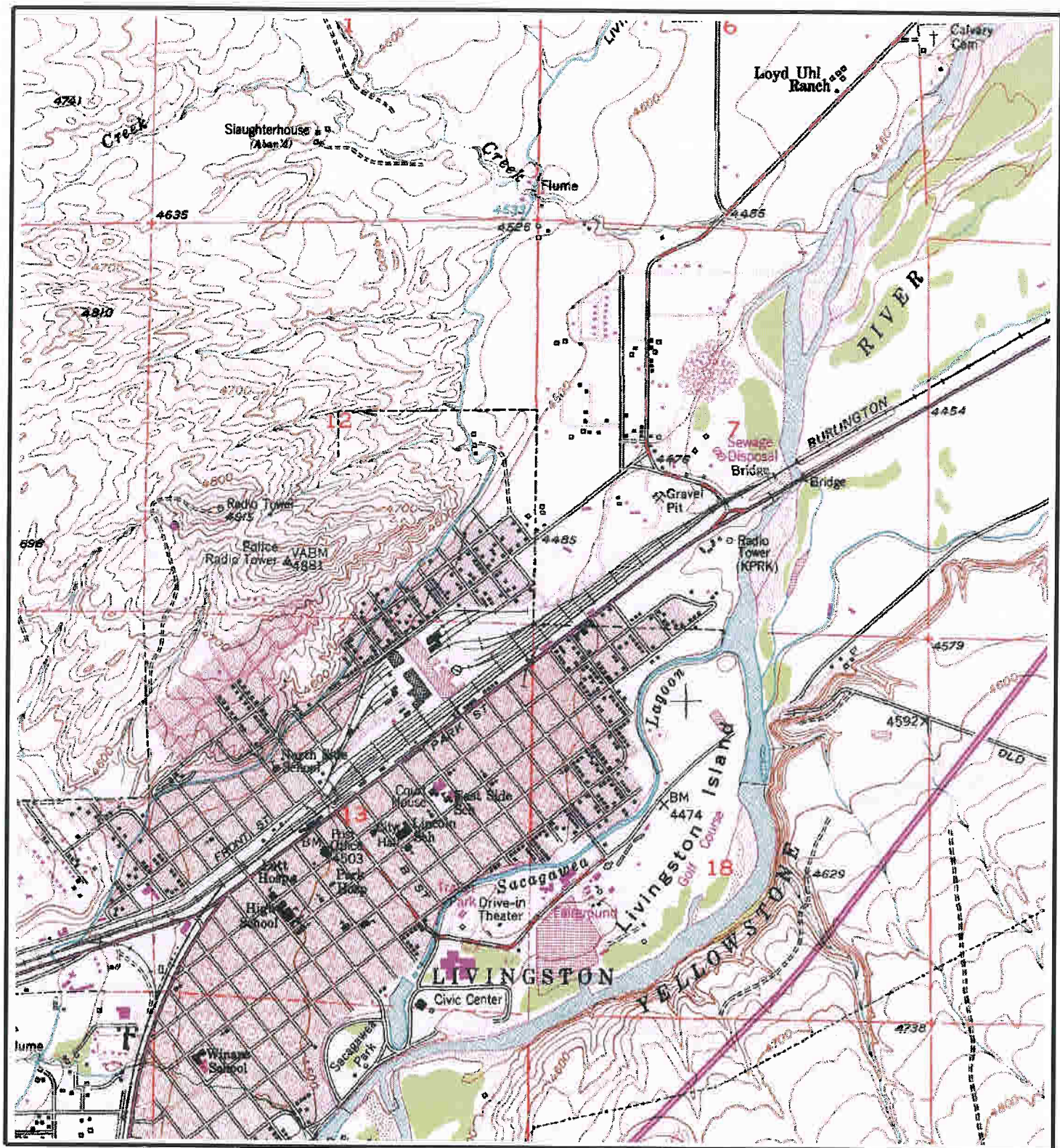


Figures





0 1000 2000 4000
 APPROXIMATE SCALE IN FEET



REFERENCE: USGS 7.5' TOPOGRAPHIC
 QUADRANGLE LIVINGSTON, MONTANA 1951
 PHOTO REVISED 1981

Kennedy/Jenks Consultants

BNSF
 LIVINGSTON RAILYARD
 LIVINGSTON, MT

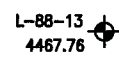
VICINITY MAP

0696021.16/ASR/FIGURE 1

FIGURE 1

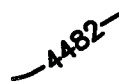


LEGEND



L-88-13
4467.76

MONITORING, PUBLIC, OR PRIVATE WELL LOCATION AND
WATER LEVEL ELEVATION (FEET ABOVE MSL)

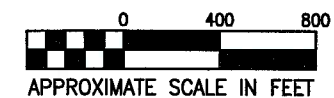


APPROXIMATE POTENTIOMETRIC SURFACE ELEVATION
CONTOURS BASED ON MEASUREMENTS TAKEN
JUNE 2005.
INTERPOLATION BASED ON TRIANGULATED IRREGULAR
NETWORK USING pc-TIN 3.4D (FEET ABOVE MSL)

CONTOUR INTERVAL = 2 FEET

BASEMAP SOURCE:

HORIZONS, INC. RAPID, SD (1989)



APPROXIMATE SCALE IN FEET

Kennedy/Jenks Consultants

BURLINGTON NORTHERN LIVINGSTON SHOP
COMPLEX - LIVINGSTON, MT

**POTENTIOMETRIC SURFACE CONTOURS
JUNE 2005**

0696021.16/ASR/FIGURE 3

3/06

FIGURE 3



LEGEND

L-88-13
4467.10

MONITORING, PUBLIC, OR PRIVATE WELL LOCATION AND
WATER LEVEL ELEVATION (FEET ABOVE MSL)

4482

APPROXIMATE POTENTIOMETRIC SURFACE ELEVATION
CONTOURS BASED ON MEASUREMENTS TAKEN
NOVEMBER 2005.
INTERPOLATION BASED ON TRIANGULATED IRREGULAR
NETWORK USING pc-TIN 3.4D (FEET ABOVE MSL)

CONTOUR INTERVAL = 2 FEET

BASEMAP SOURCE:

HORIZONS, INC. RAPID, SD (1989)

0 400 800
APPROXIMATE SCALE IN FEET

Kennedy/Jenks Consultants

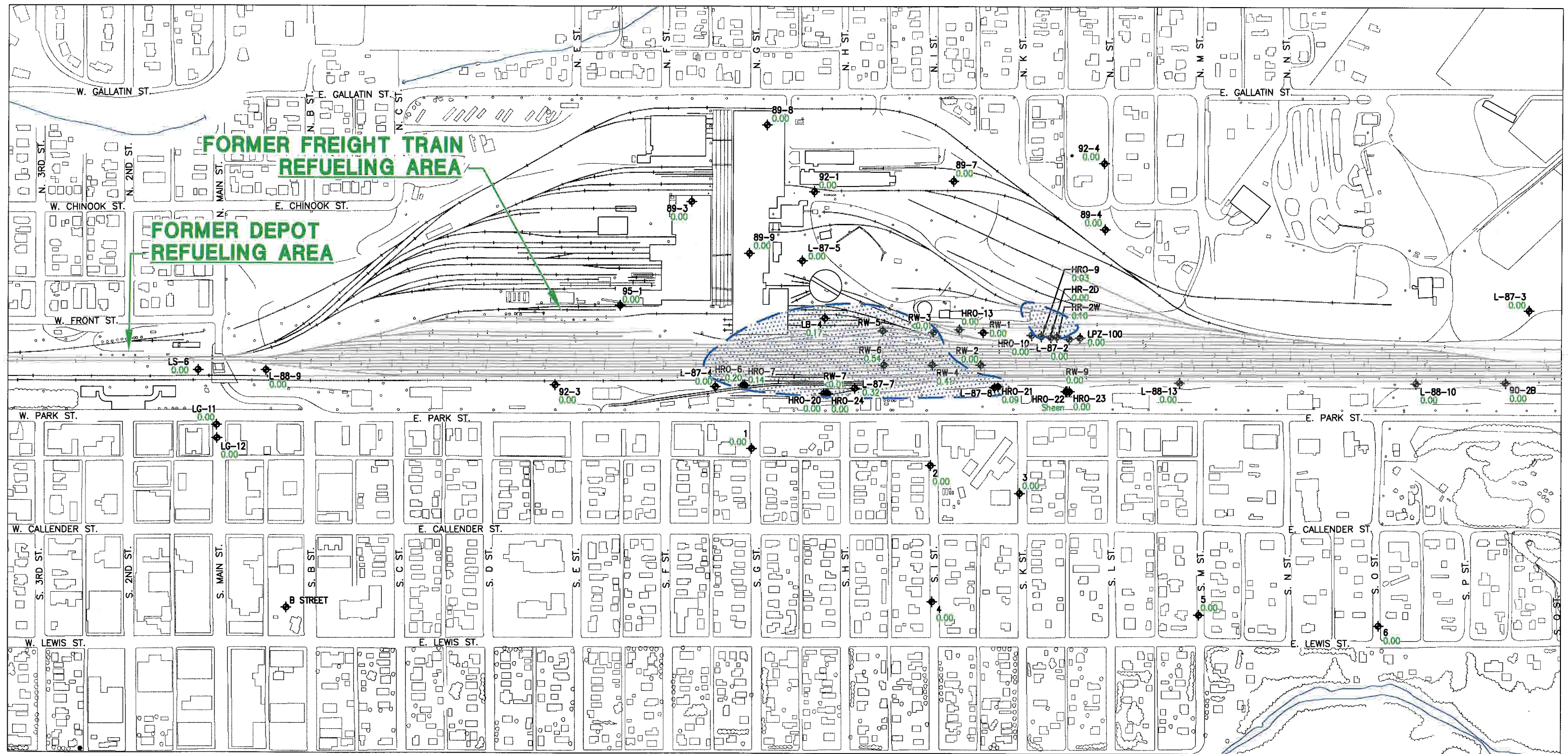
BURLINGTON NORTHERN LIVINGSTON SHOP
COMPLEX – LIVINGSTON, MT

**POTENTIOMETRIC SURFACE CONTOURS
NOVEMBER 2005**

0696021.16/ASR/FIGURE 4

3/06

FIGURE 4



LEGEND



ESTIMATED EXTENT OF MEASURABLE APPARENT LNAPL THICKNESS

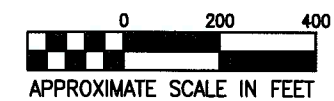
MONITORING OR PUBLIC WELL LOCATION AND APPARENT LNAPL THICKNESS (FEET)

NOTE:

- 1) THE IDEALIZED LNAPL DISTRIBUTION SHOWN WAS INFERRED BASED ON MONITORING DATA FROM JUNE 2005. AREAS WITH NO MEASURABLE LNAPL MAY OCCUR WITHIN THE MEASURABLE LNAPL AREA DEPICTED.

BASEMAP SOURCE:

HORIZONS, INC. RAPID, SD (1989)



Kennedy/Jenks Consultants

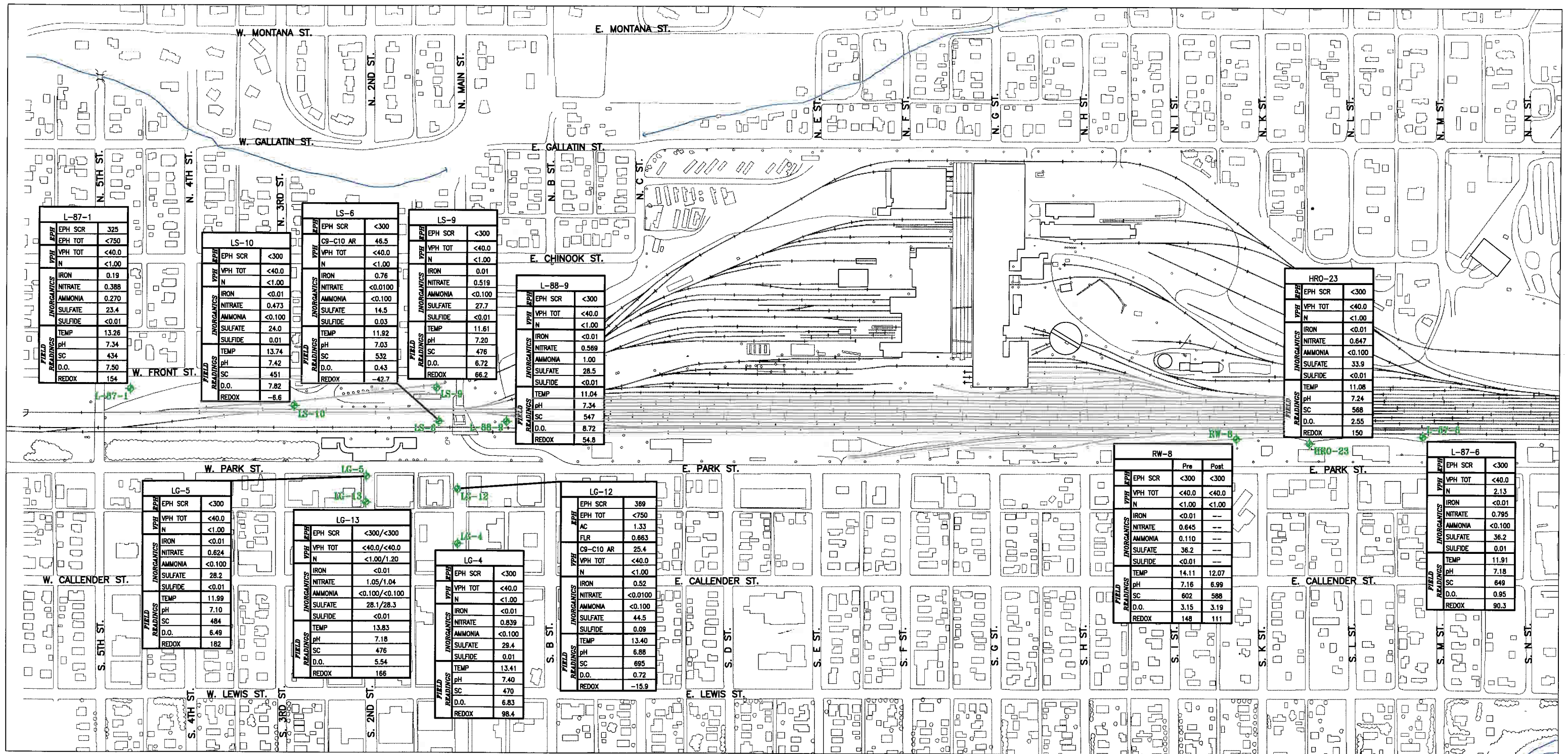
BURLINGTON NORTHERN LIVINGSTON SHOP COMPLEX - LIVINGSTON, MT

LNAPL MEASUREMENTS AND DISTRIBUTION - JUNE 2005

0696021.16/ASR/FIGURE 5

3/06

FIGURE 5



LEGEND

LS-6	
EPH SCR	<300
C9-C10 AR	46.5
VPH TOT	<40.0
N	<1.00
IRON	0.76
NITRATE	<0.0100
AMMONIA	<0.100
SULFATE	14.5
SULFIDE	0.03
TEMP	11.92
pH	7.03
SC	532
D.O.	0.43
REDOX	-42.7

WELL DESIGNATION WITH DETECTED EPH, VPH, AND PAHs (ug/L), AND INORGANICS (mg/L), AND FIELD READINGS FOR THE MARCH 2005 SAMPLING EVENT.

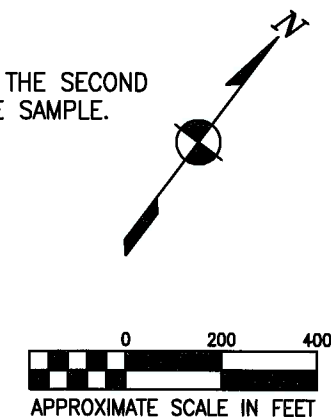
MONITORING WELL LOCATION

EPH EXTRACTABLE PETROLEUM HYDROCARBONS
 EPH SCR EPH SCREEN
 EPH TOT TOTAL EPH
 VPH VOLATILE PETROLEUM HYDROCARBONS
 VPH TOT TOTAL VPH
 C9-C10 AR C9 TO C10 AROMATICS

PAHs POLYNUCLEAR AROMATIC HYDROCARBONS
 AC ACENAPHTHENE
 FLR FLUORENE
 N NAPHTHALENE
 IRON FERROUS IRON
 NITRATE NITRATE + NITRATE REPORTED AS NITROGEN
 AMMONIA AMMONIA REPORTED AS NITROGEN
 TEMP TEMPERATURE (DEGREES CELSIUS)
 SC SPECIFIC CONDUCTANCE (uS)
 D.O. DISSOLVED OXYGEN (mg/L)
 REDOX REDUCTION OXIDATION POTENTIAL (mV)

NOTE:

- WHERE TWO RESULTS ARE SHOWN THE SECOND RESULT IS FOR A FIELD DUPLICATE SAMPLE.

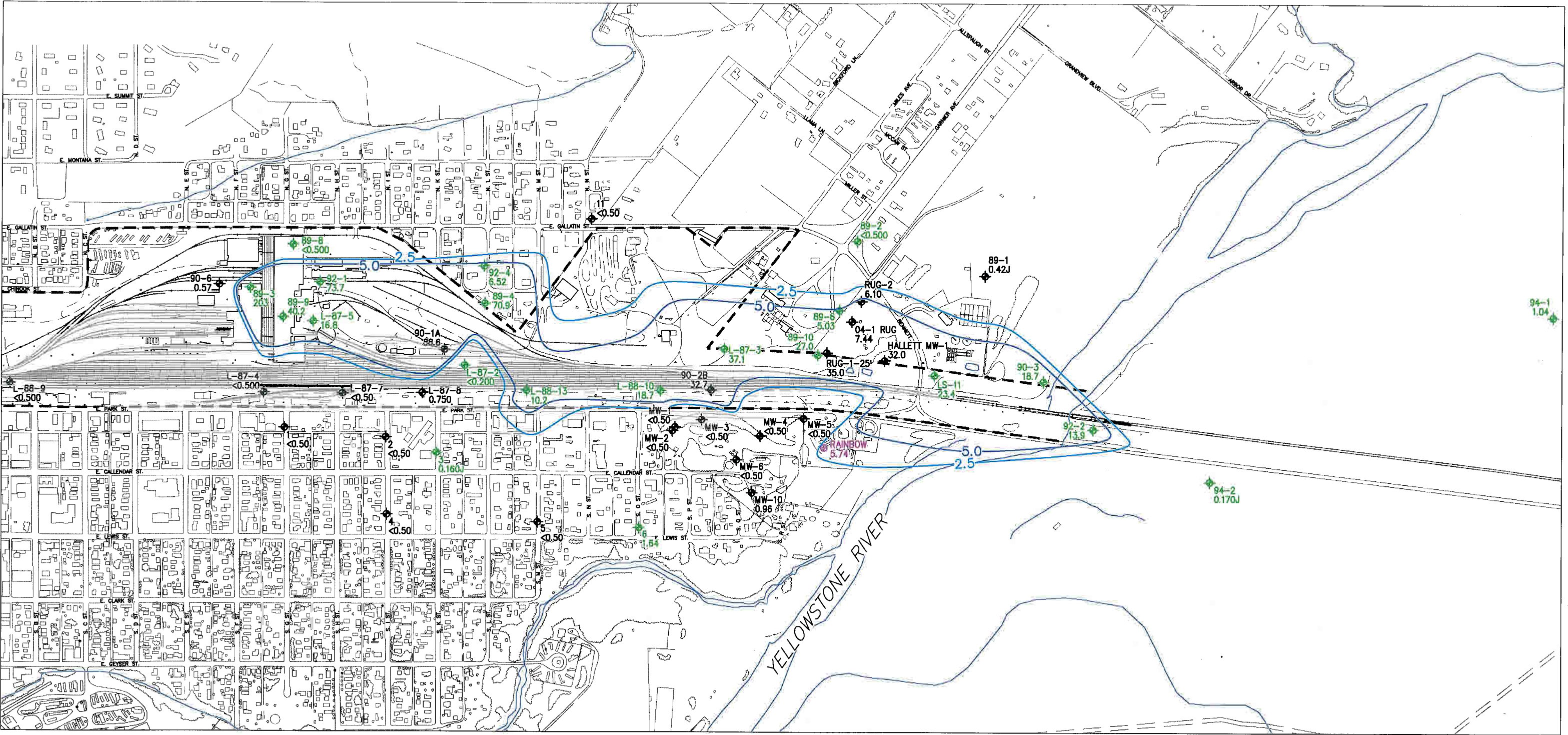


Kennedy/Jenks Consultants

BURLINGTON NORTHERN LIVINGSTON SHOP
 COMPLEX - LIVINGSTON, MT

DISSOLVED-PHASE PETROLEUM
 AND NATURAL ATTENUATION
 ANALYTICAL RESULTS - MARCH 2005

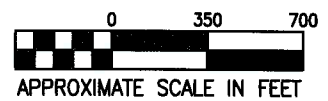
0696021.16/ASR/FIGURE 7



LEGEND

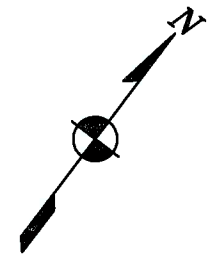
- L-88-10 18.7
MONITORING WELL AND PCE CONCENTRATION IN MICROGRAMS PER LITER (µg/L) – JUNE 2005
- L-87-7 <0.50
MONITORING WELL AND PCE CONCENTRATION (µg/L) NOT SAMPLED FOR PCE DURING JUNE 2005 EVENT; THEREFORE, MOST RECENT DATA AVAILABLE USED
- RAINBOW 5.74
PRIVATE WELL LOCATION AND PCE CONCENTRATION (µg/L) – JUNE 2005
- "<"
INDICATES NO PCE DETECTED
- - - - -
LIVINGSTON RAILYARD BOUNDARY

- 2.5 ESTIMATED PCE ISOCONCENTRATION CONTOUR (µg/L)
- 5.0 ESTIMATED ISOCONCENTRATION CONTOUR FOR PCE CLEANUP LEVEL PER THE RECORD OF DECISION (µg/L)



NOTES:

1) THE ISOCONCENTRATION CONTOURS SHOWN ON THIS DRAWING ARE INTENDED TO PROVIDE A GENERALIZED REPRESENTATION OF POTENTIAL SITE CONDITIONS AT ANY GIVEN TIME DURING THE PERIOD DURING WHICH DATA USED TO GENERATE THE MAP WERE ACQUIRED. CONTOURS DEPICTED WERE COMPUTER GENERATED USING ARC/INFO pc-TIN 3.40 BASED ON AVAILABLE DATA POINTS AND, THEREFORE, INCLUDE ANOMALIES THAT ARE NOT CONSISTENT WITH THE EXPECTED ACTUAL CHEMICAL CONCENTRATION DISTRIBUTION IN GROUNDWATER. THE ACTUAL DISTRIBUTION OF CHEMICAL CONCENTRATIONS IN GROUNDWATER CANNOT BE ACCURATELY DEPICTED USING TWO-DIMENSIONAL CONTOURING AND ESTIMATION METHODS SUCH AS THOSE USED TO PREPARE THIS DRAWING. THIS DRAWING IS INTENDED TO SERVE ONLY AS A GENERALIZED OR IDEALIZED REPRESENTATION OF SITE CONDITIONS TO ASSIST THE VIEWER IN VISUALIZING SITE CONDITIONS. THE CONTOURS DO NOT REPRESENT ANY PARTICULAR STATISTICAL CERTAINTY OF THE PRESENCE OR ABSENCE OF DETECTABLE CHEMICAL CONCENTRATIONS IN GROUNDWATER AT THE LOCATIONS SHOWN, NOR IS ANY WARRANTY OR GUARANTY, EXPRESSED OR IMPLIED, MADE BY KENNEDY/JENKS CONSULTANTS OR BNSF WITH RESPECT TO THE ACCURACY OF THIS DRAWING.



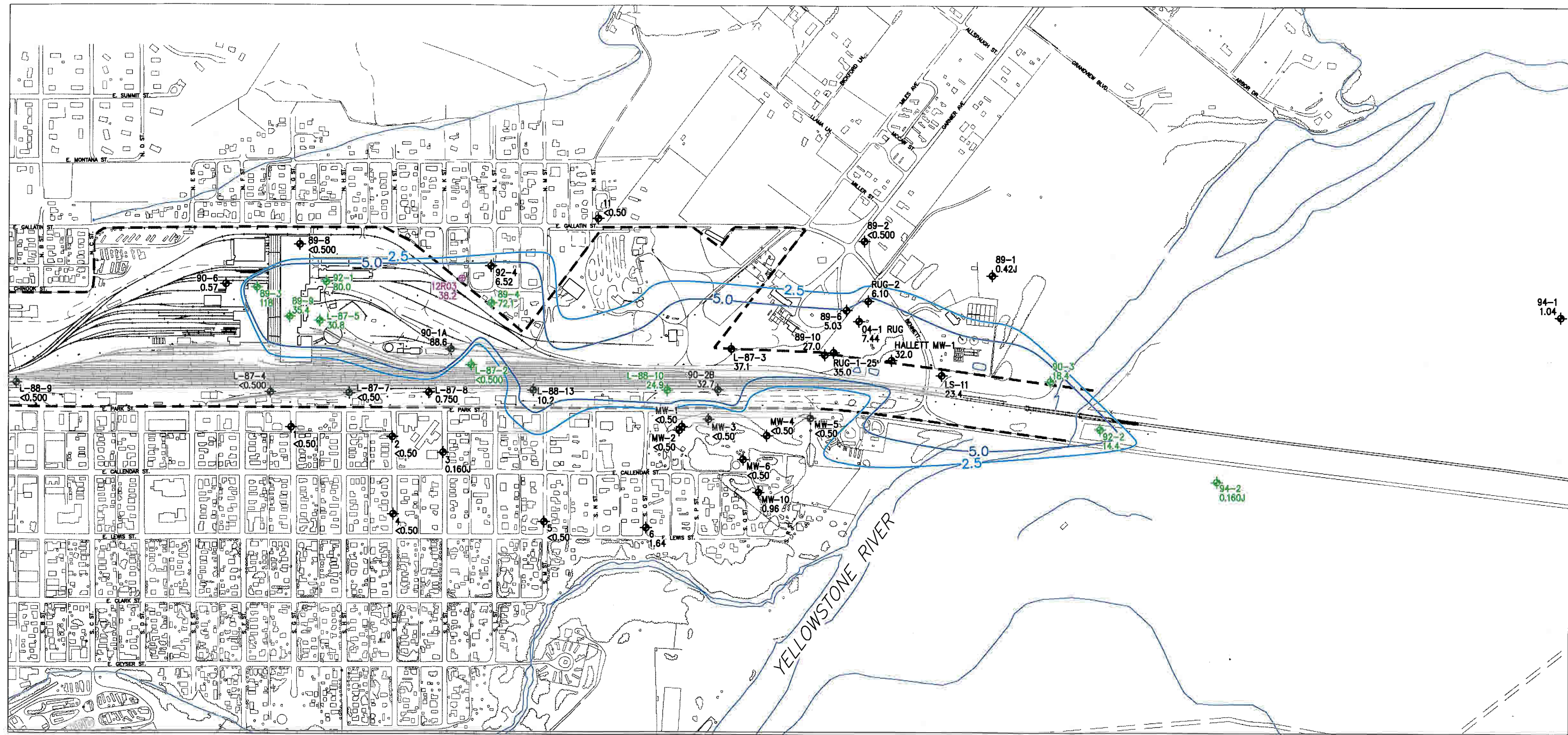
BASEMAP SOURCE:
HORIZONS, INC. RAPID, SD (1989)

Kennedy/Jenks Consultants

BURLINGTON NORTHERN LIVINGSTON SHOP
COMPLEX – LIVINGSTON, MT

**TETRACHLOROETHENE (PCE)
CONCENTRATIONS AND DISTRIBUTION
JUNE 2005**

0696021.16/ASR/FIGURE 8



LEGEND

L-88-10
24.9

MONITORING WELL AND PCE CONCENTRATION
IN MICROGRAMS PER LITER (µg/L) – NOVEMBER 2005

L-87-7
<0.50

MONITORING WELL AND PCE CONCENTRATION (µg/L)
NOT SAMPLED FOR PCE DURING NOVEMBER 2005 EVENT;
THEREFORE, MOST RECENT DATA AVAILABLE USED

12R03
38.2

PRIVATE WELL LOCATION AND PCE
CONCENTRATION (µg/L) – NOVEMBER 2005

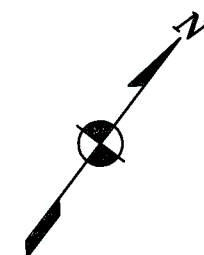
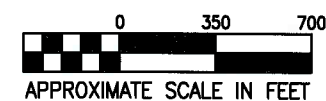
"<"

INDICATES NO PCE DETECTED

----- LIVINGSTON RAILYARD BOUNDARY

2.5 ESTIMATED PCE ISOCONCENTRATION CONTOUR (µg/L)

5.0 ESTIMATED ISOCONCENTRATION CONTOUR FOR PCE CLEANUP
LEVEL PER THE RECORD OF DECISION (µg/L)



BASEMAP SOURCE:
HORIZONS, INC. RAPID, SD (1989)

NOTES:

1) THE ISOCONCENTRATION CONTOURS SHOWN ON THIS DRAWING ARE INTENDED TO PROVIDE A GENERALIZED REPRESENTATION OF POTENTIAL SITE CONDITIONS AT ANY GIVEN TIME DURING THE PERIOD DURING WHICH DATA USED TO GENERATE THE MAP WERE ACQUIRED. CONTOURS DEPICTED WERE COMPUTER GENERATED USING ARC/INFO pc-TIN 3.40 BASED ON AVAILABLE DATA POINTS AND, THEREFORE, INCLUDE ANOMALIES THAT ARE NOT CONSISTENT WITH THE EXPECTED ACTUAL CHEMICAL CONCENTRATION DISTRIBUTION IN GROUNDWATER. THE ACTUAL DISTRIBUTION OF CHEMICAL CONCENTRATIONS IN GROUNDWATER CANNOT BE ACCURATELY DEPICTED USING TWO-DIMENSIONAL CONTOURING AND ESTIMATION METHODS SUCH AS THOSE USED TO PREPARE THIS DRAWING. THIS DRAWING IS INTENDED TO SERVE ONLY AS A GENERALIZED OR IDEALIZED REPRESENTATION OF SITE CONDITIONS TO ASSIST THE VIEWER IN VISUALIZING SITE CONDITIONS. THE CONTOURS DO NOT REPRESENT ANY PARTICULAR STATISTICAL CERTAINTY OF THE PRESENCE OR ABSENCE OF DETECTABLE CHEMICAL CONCENTRATIONS IN GROUNDWATER AT THE LOCATIONS SHOWN, NOR IS ANY WARRANTY OR GUARANTY, EXPRESSED OR IMPLIED, MADE BY KENNEDY/JENKS CONSULTANTS OR BNSF WITH RESPECT TO THE ACCURACY OF THIS DRAWING.

Kennedy/Jenks Consultants

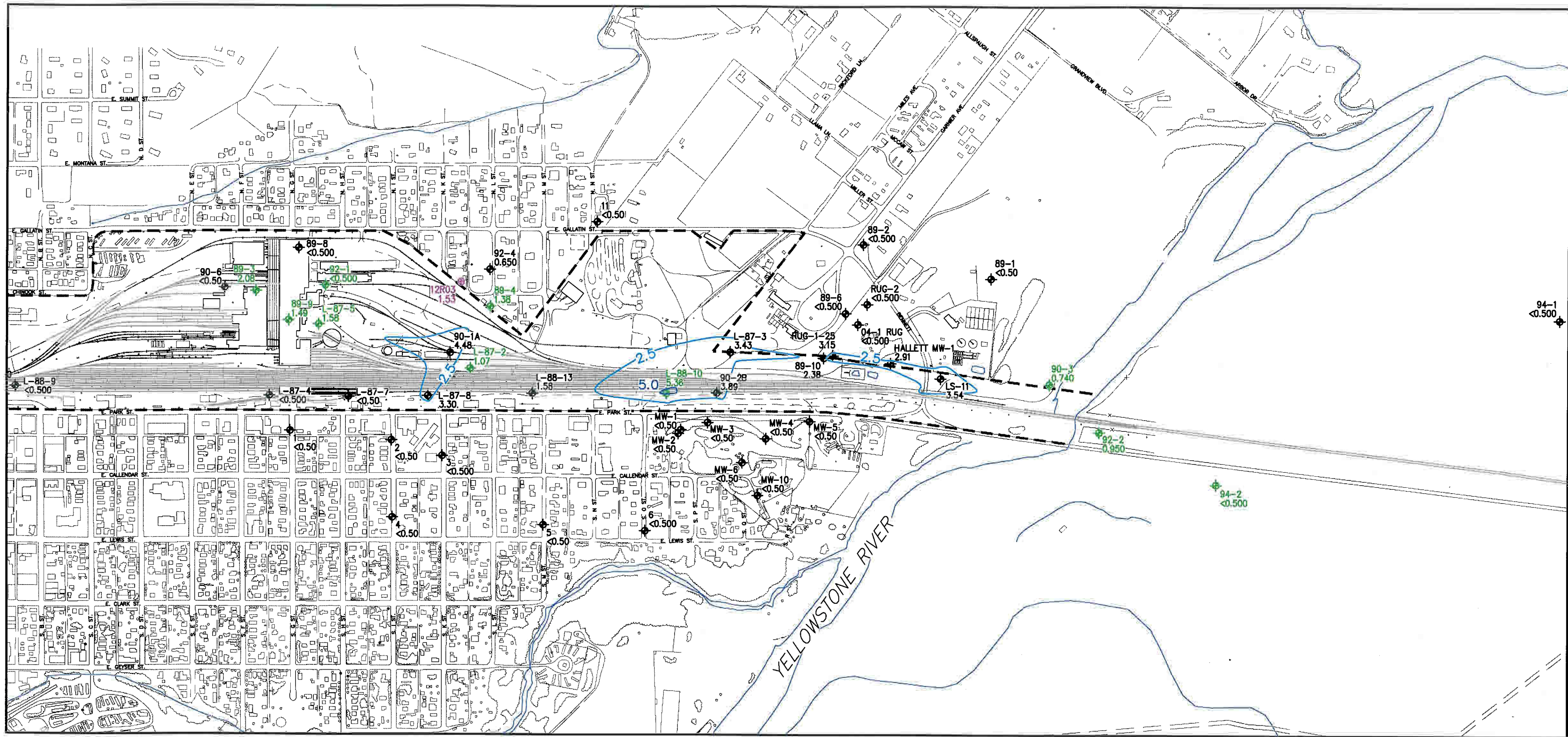
BURLINGTON NORTHERN LIVINGSTON SHOP
COMPLEX – LIVINGSTON, MT

**TETRACHLOROETHENE (PCE)
CONCENTRATIONS AND DISTRIBUTION
NOVEMBER 2005**

0696021.16/ASR/FIGURE 11

3/06

FIGURE 11



LEGEND

89-4
1.38

MONITORING WELL AND TCE CONCENTRATION
IN MICROGRAMS PER LITER (µg/L) – NOVEMBER 2005

<0.50

MONITORING WELL AND TCE CONCENTRATION (µg/L)
NOT SAMPLED FOR TCE DURING NOVEMBER 2005 EVENT;
THEREFORE, MOST RECENT DATA AVAILABLE USED

12R03
1.53

PRIVATE WELL LOCATION AND TCE
CONCENTRATION (µg/L) – NOVEMBER 2005

"<"

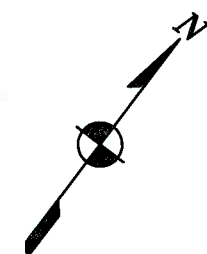
INDICATES NO TCE DETECTED

----- LIVINGSTON RAILYARD BOUNDARY

2.5 ESTIMATED TCE ISOCONCENTRATION CONTOUR (µg/L)

5.0 ESTIMATED ISOCONCENTRATION CONTOUR FOR TCE CLEANUP
LEVEL PER THE RECORD OF DECISION (µg/L)

0 350 700
APPROXIMATE SCALE IN FEET



NOTES:

1) THE ISOCONCENTRATION CONTOURS SHOWN ON THIS DRAWING ARE INTENDED TO PROVIDE A GENERALIZED REPRESENTATION OF POTENTIAL SITE CONDITIONS AT ANY GIVEN TIME DURING THE PERIOD DURING WHICH DATA USED TO GENERATE THE MAP WERE ACQUIRED. CONTOURS DEPICTED WERE COMPUTER GENERATED USING ARC/INFO pc-TIN 3.40 BASED ON AVAILABLE DATA POINTS AND, THEREFORE, INCLUDE ANOMALIES THAT ARE NOT CONSISTENT WITH THE EXPECTED ACTUAL CHEMICAL CONCENTRATION DISTRIBUTION IN GROUNDWATER. THE ACTUAL DISTRIBUTION OF CHEMICAL CONCENTRATIONS IN GROUNDWATER CANNOT BE ACCURATELY DEPICTED USING TWO-DIMENSIONAL CONTOURING AND ESTIMATION METHODS SUCH AS THOSE USED TO PREPARE THIS DRAWING. THIS DRAWING IS INTENDED TO SERVE ONLY AS A GENERALIZED OR IDEALIZED REPRESENTATION OF SITE CONDITIONS TO ASSIST THE VIEWER IN VISUALIZING SITE CONDITIONS. THE CONTOURS DO NOT REPRESENT ANY PARTICULAR STATISTICAL CERTAINTY OF THE PRESENCE OR ABSENCE OF DETECTABLE CHEMICAL CONCENTRATIONS IN GROUNDWATER AT THE LOCATIONS SHOWN, NOR IS ANY WARRANTY OR GUARANTY, EXPRESSED OR IMPLIED, MADE BY KENNEDY/JENKS CONSULTANTS OR BNSF WITH RESPECT TO THE ACCURACY OF THIS DRAWING.

BASEMAP SOURCE:
HORIZONS, INC. RAPID, SD (1989)

Kennedy/Jenks Consultants

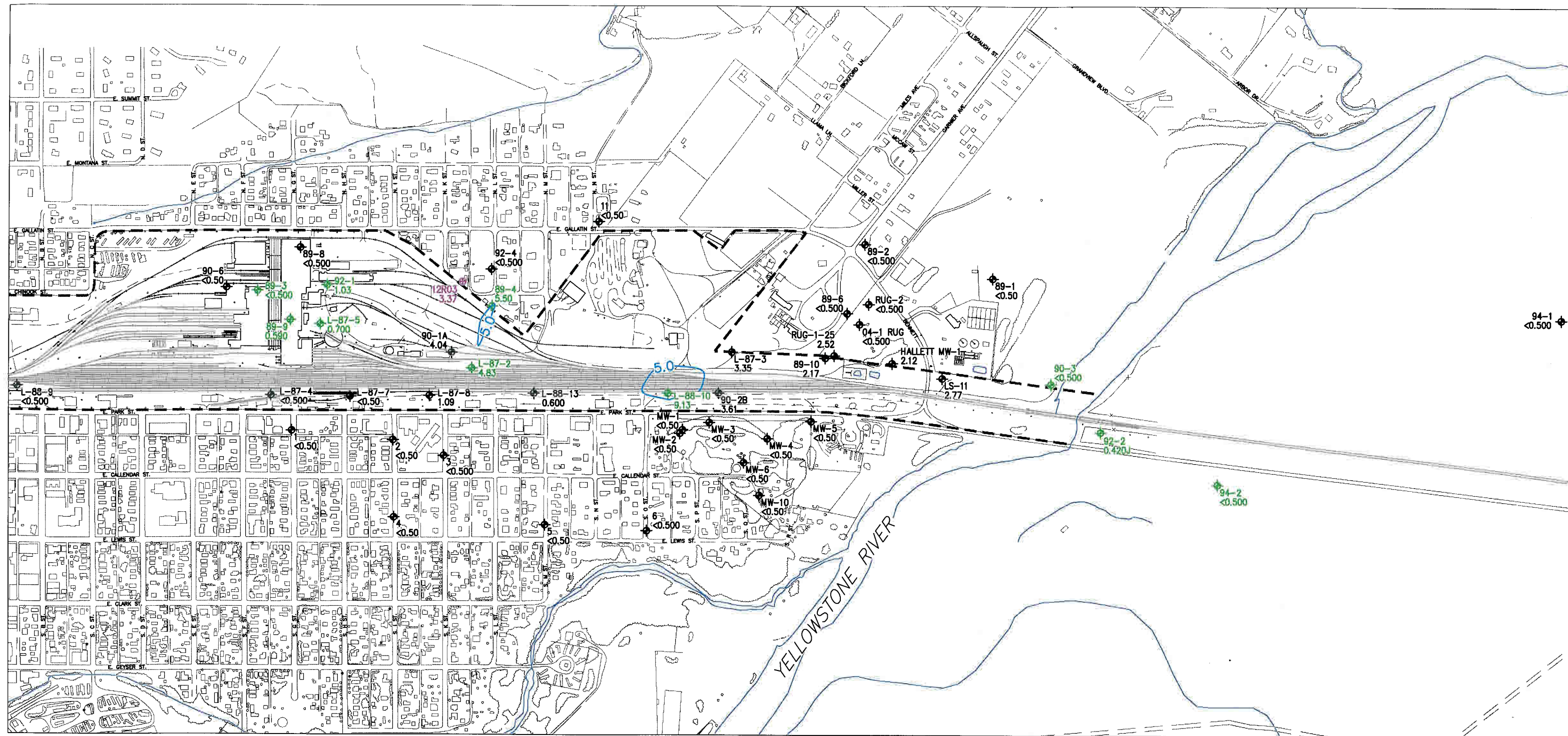
BURLINGTON NORTHERN LIVINGSTON SHOP
COMPLEX – LIVINGSTON, MT

**TRICHLOROETHENE (TCE)
CONCENTRATIONS AND DISTRIBUTION
NOVEMBER 2005**

0696021.16/ASR/FIGURE 12

3/06

FIGURE 12



LEGEND

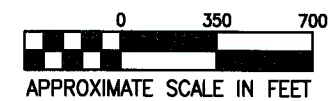
- 89-4 5.50 + MONITORING WELL AND cis-1,2-DCE CONCENTRATION IN MICROGRAMS PER LITER (µg/L) – NOVEMBER 2005
- <0.50 + MONITORING WELL AND cis-1,2-DCE CONCENTRATION (µg/L) NOT SAMPLED FOR cis-1,2-DCE DURING NOVEMBER 2005 EVENT; THEREFORE, MOST RECENT DATA AVAILABLE USED
- 12R03 3.37 ⊕ PRIVATE WELL LOCATION AND cis-1,2-DCE CONCENTRATION (µg/L) – NOVEMBER 2005
- * < INDICATES NO cis-1,2-DCE DETECTED
- LIVINGSTON RAILYARD BOUNDARY
- 5.0 ESTIMATED cis-1,2-DCE ISOCONCENTRATION CONTOUR (µg/L)

NOTES:

1) THE ISOCONCENTRATION CONTOURS SHOWN ON THIS DRAWING ARE INTENDED TO PROVIDE A GENERALIZED REPRESENTATION OF POTENTIAL SITE CONDITIONS AT ANY GIVEN TIME DURING THE PERIOD DURING WHICH DATA USED TO GENERATE THE MAP WERE ACQUIRED. CONTOURS DEPICTED WERE COMPUTER GENERATED USING ARC/INFO pc-TIN 3.40 BASED ON AVAILABLE DATA POINTS AND, THEREFORE, INCLUDE ANOMALIES THAT ARE NOT CONSISTENT WITH THE EXPECTED ACTUAL CHEMICAL CONCENTRATION DISTRIBUTION IN GROUNDWATER. THE ACTUAL DISTRIBUTION OF CHEMICAL CONCENTRATIONS IN GROUNDWATER CANNOT BE ACCURATELY DEPICTED USING TWO-DIMENSIONAL CONTOURING AND ESTIMATION METHODS SUCH AS THOSE USED TO PREPARE THIS DRAWING. THIS DRAWING IS INTENDED TO SERVE ONLY AS A GENERALIZED OR IDEALIZED REPRESENTATION OF SITE CONDITIONS TO ASSIST THE VIEWER IN VISUALIZING SITE CONDITIONS. THE CONTOURS DO NOT REPRESENT ANY PARTICULAR STATISTICAL CERTAINTY OF THE PRESENCE OR ABSENCE OF DETECTABLE CHEMICAL CONCENTRATIONS IN GROUNDWATER AT THE LOCATIONS SHOWN, NOR IS ANY WARRANTY OR GUARANTY, EXPRESSED OR IMPLIED, MADE BY KENNEDY/JENKS CONSULTANTS OR BNSF WITH RESPECT TO THE ACCURACY OF THIS DRAWING.

BASEMAP SOURCE:

HORIZONS, INC. RAPID, SD (1989)



Kennedy/Jenks Consultants

BURLINGTON NORTHERN LIVINGSTON SHOP
COMPLEX – LIVINGSTON, MT

**cis-1,2-DICHLOROETHENE (cis-1,2-DCE)
CONCENTRATIONS AND DISTRIBUTION
NOVEMBER 2005**

0696021.16/ASR/FIGURE 13